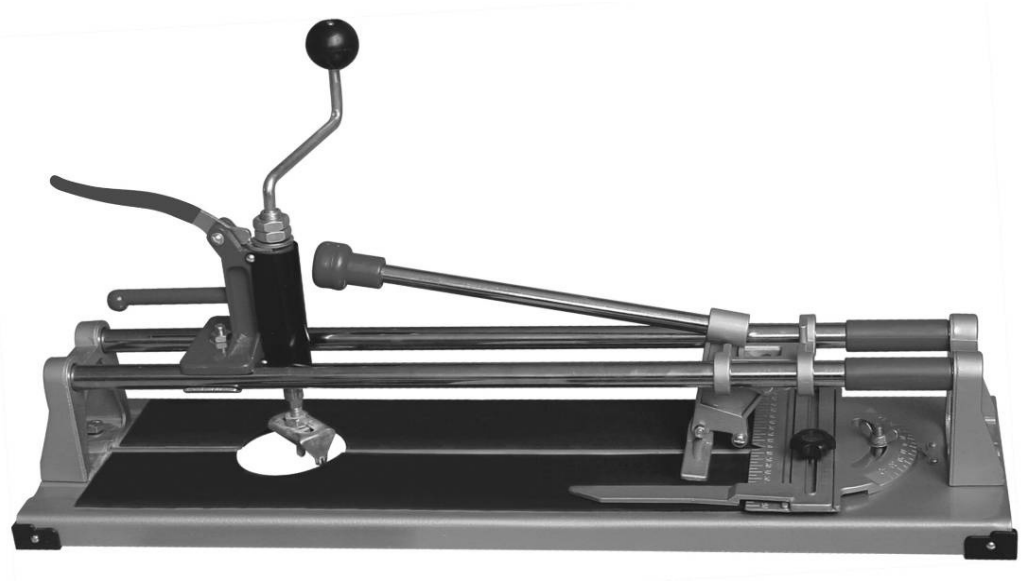
CENTRAL FORGE®

3 IN 1 HEAVY DUTY TILE CUTTER

Model 41711

ASSEMBLY OPERATING INSTRUCTIONS



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Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

Revised Manual 10c

SPECIFICATIONS MODEL # 41711 TILE CUTTER

Base Material	Steel Place, 13 ga.
Base Size	7-3/4”W x 27-1/2”L
Guide Support	Cast Aluminum
Guide Bars	3/4” Steel Tube
Guide Bar Length	25-1/2”
Cutter Fixture	Cast Aluminum (3 pcs.)
Straight Cutter Wheel	Hardened Steel
Straight Capacity	15-3/4”
Cutter Handle	1/2” Steel Tube x 12”L
Circle Cutter	Cast Aluminum
Circle Dimension	1-3/16” Min., 3-1/4” Max.
Cutting Tip	Carbide
Miter and Fence	Cast Aluminum
Adjustment	0° to 45° (5° increments)
New Weight	11.4 Lbs.

FEATURES OF THIS TOOL

1. Sturdy cast aluminum and steel construction will deliver a long service life.
2. Large capacity straight cuts up to 17” long and circles up to 3-1/4”.
3. Convenient built-in breaker.
4. Handy circle cutter will cut circles as small as 1-3/16” and as large as 3-1/4”.
5. Built in measurement scales for tile width, cut angle, and circle cut dimension.

SAVE THIS MANUAL

You will need this manual for the safety warnings and cautions, assembly instructions, operating procedures, maintenance procedures, trouble shooting, parts list, and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep both this manual and your invoice in a safe, dry place for future reference.

NOTICE

The Warnings, Cautions, and Instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAFETY WARNING & CAUTIONS

WARNING: When using shop equipment, basic safety precautions should always be followed to reduce the risk of personal injury and *hazards.*

READ ALL INSTRUCTIONS BEFORE USING THIS TOOL!

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.

2. **OBSERVE WORK AREA CONDITIONS.** Do not use tools in damp, wet, or poorly lit locations. Do not expose to rain. Keep work area well lit. Do not use electrically powered equipment in the presence of flammable gases or liquids.

3. **KEEP CHILDREN AWAY.** Children must never be allowed in the work area. Do not let them handle machines, tools, or equipment.

4. **STORE IDLE EQUIPMENT.** When not in use, tools must be locked up in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.

5. **DO NOT FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended. Do not use inappropriate attachments in an attempt to exceed the tool's capacities.

6. **USE THE RIGHT TOOL FOR THE JOB.** Do not use a tool for a purpose for which it was not intended.

7. **DRESS PROPERLY.** Do not wear loose clothing or jewelry, as they can be caught in moving parts. Non-skid footwear is recommended. Wear restrictive hair covering to contain long hair. Always wear appropriate work clothing.

8. **USE EYE, EAR AND BREATHING PROTECTION.** Always wear ANSI approved impact safety goggles if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists. Use ANSI approved ear protection when working in a loud or noisy environment.

9. **DO NOT OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across running machines.

10. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Control handles must be kept clean, dry, and free from oil and grease at all times.

11. **STAY ALERT.** Watch what you are doing. Do not operate any machinery when you are tired.

12. **DO NOT OPERATE MACHINERY WHILE UNDER THE INFLUENCE OF ALCOHOL, DRUGS, OR PRESCRIPTION MEDICINES.**

13. **CHECK FOR DAMAGED PARTS.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts, any broken parts or mounting fixtures, and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.

14. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts, available from Harbor Freight Tools. Use of any other parts will void the warranty.

SPECIAL WARNINGS WHEN USING THIS TILE CUTTER

Using this Tool may create special hazards.
Take particular care to safeguard yourself and those around you.

Do not exceed the material thickness limitation. *You can make straight cuts in tiles up to 5/8" thick, and cut holes in tiles up to 3/8" thick with this machine*. Attempting to cut thicker material may cause damage to the machine and potential personal injury.

Crushing and Marring. ***Using excessive force on the lever, or using dull or dirty cutter wheels can cause damage to your workpiece.*** Before cutting any material with this tool, assure that the cutting wheel or tip is in good condition. When moving the handle, assure that the pressure applied is appropriate to the thickness and hardness of the tile being scored.

Guiding and Supporting Materials. ***Materials must be supported while scoring, or breaking.***

Wear Eye protective glasses when operating this tool. Occasionally splinters or shards may split off and be ejected whil using this tool. Protect your eyes to prevent injury.

Avoid injury to your hands and fingers. Keep your hands away from the moving and cutting parts of this tool during operation.

NOTICE: No list of warnings can be all inclusive. The operator must supply common sense, and operate this tool in a safe manner.

ASSEMBLY

Your Tile Cutter is mostly assembled when you receive it. Please complete the assembly as follows.

Install the Bottom Feet.

1. Slide each Bottom Foot (#T) onto the lower corners of the Base (#V). Attach each one with the bolts, nuts, and washers supplied. Tighten the fasteners firmly.

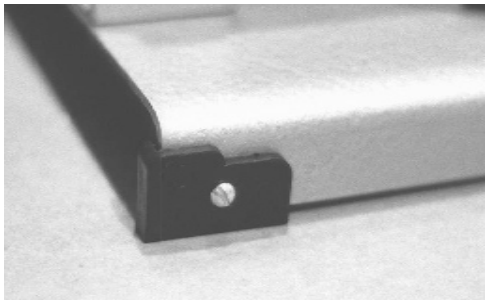

Figure 1. Foot Assembly.

Install the Circle Cutter.

Your tile cutter comes set up for making straight cuts. Whenever you wish to make circle cuts, you must install the circle cutter. Remove the circle cutter when finished.

1. Raise the Handle (#H) and slide the mechanism away from the circle cutter area towards the Buffer Sleeves (#L).

2. Remove the nut and washer from the Pressing Plate (#E), be careful not to lose these parts.

3. Place the circle cutter mechanism onto the Tracks (#M) with the Press Handle (#A) pointed to the right, away from the Buffer Sleeve portion of the tool. Align the drill point of the circle cutter with the center of the hole in the Base.

4. Place the Pressing Plate (#E) under the tracks and circle cutter assembly, with the threaded rod inserted upward through the hole in the base of the circle cutting assembly. Re-install the nut and washer and tighten.

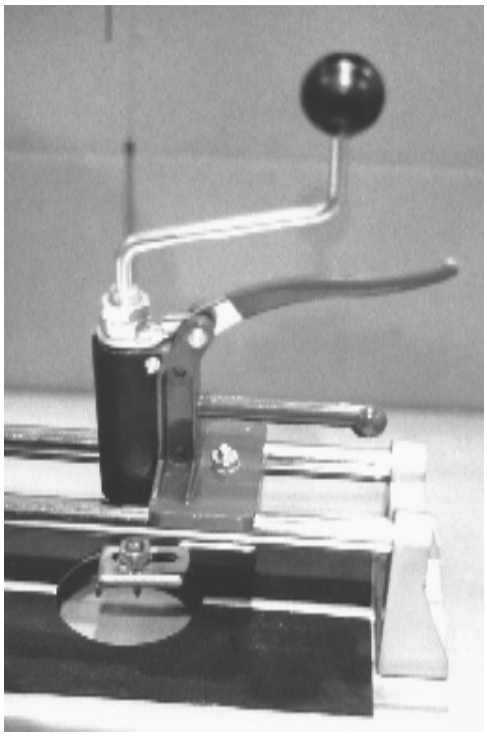

Figure 2. Hole Cutter Assembly.

Install the try square.

Depending on the model you purchased, the try square may install with the arm extension of the try square either to the front of the tool, or to the rear. Both versions work equally well. The measuring scales on your tool also may be marked either in millimeters or inches.

1. Position the try square (#U) with the molded-in scale markings upward. Place the slotted arm of the try square over the guide on the base of the tool. Secure the try square in place with the Wing Nut (#Q).

OPERATION

The basic cutting operation is accomplished by scoring the tile in the desired location, and breaking it. This process is similar to scoring and cutting glass.

NOTE: It's a good idea to make a few practice cuts on your tile before attempting to make finish cuts.

Use a sturdy workbench, or else place the machine on the floor to increase your leverage.

Making a straight cut.

1. Mark the desired cut on each tile piece using a grease pencil or washable marker.
2. Lift the Handle (#H), and place the tile on the EVA Cushion (#W) against the Graduation Ruler (#R) and Try Square (#U).
3. Align the mark on the tile with the direction of movement of the cutting wheel, and position the tile so the cutting wheel will move along the mark.
4. Lift the handle until the Cutting Wheel contacts the tile at one edge of the tile. While pulling up, move the handle so the cutting wheel rolls along the tile from edge to edge, scoring the tile along the marked line.
5. After scoring the tile, slide the handle back until the Breaking Part (#K) is centered over the tile, and lower the handle to press the Breaking Part (#K) onto the tile. Be sure that the score is aligned with the center line of the tile cutter, and the breaking part is in approximately the center of the tile, straddling the score.
6. Press the Handle down in a steady pressure until the tile breaks. Remove the broken pieces from the tile cutter.

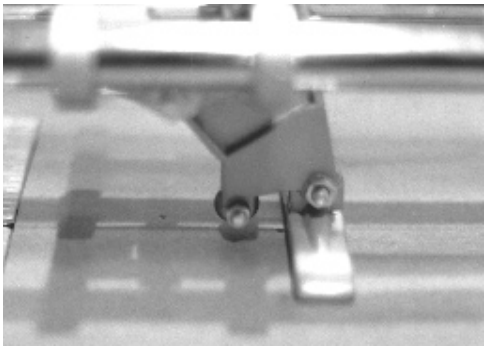

Figure 3. Cutting Wheel & Tile Breaker.

Using the Graduated Rule to Make Angled Cuts.

1. Lift the Handle. Loosen the Wing Nut (#Q) on the Graduated Ruler (#R). Turn the Graduated Ruler to the desired cutting angle. Read the angle by comparing the markings on the ruler with the arrow marker.
2. When the desired angle has been set, re-tighten the Wing Nut.
3. Place the tile against the graduated ruler, and proceed to cut as described above. The resulting cut will be at the pre-set angle.

Figure 4. Setting the Graduated Rule.

Using the Try Square to Cut Tiles to a Measured Width, and to Make Repeatable Cuts of the Same Width.

1. Loosen the Clamp (#S), and slide the Try Square (#U) to the desired width of the finished cut tile. You may read the finished dimension by comparing the scale markings on the Try Square to the arrow on the tool. Retighten the Clamp.
2. Place the tile against the Graduation Ruler, and against the Try Square. Cut the tile in the usual way. You can make repeated cuts of the same size, if desired.
3. You may also mark a tile for a desired width, place it on the cutter, and adjust the try square against the edge of the tile. Additional tiles may then be cut to the same dimension.

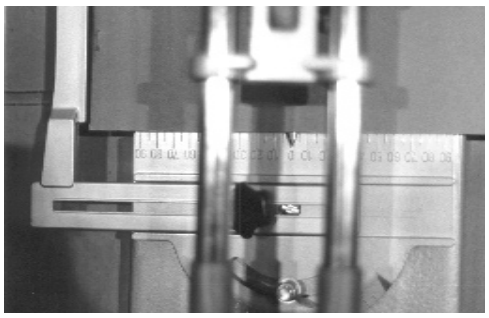

Figure 5. Using the Try Square.

TIP: *Do not cut too many tiles to the same size without test installing them in your workplace. Small variations in actual construction of walls, floors, and counter tops which may not be immediately apparent may require you to adjust the cut dimension of tiles as you work.*

Making a Circle Cut.

1. Assemble the circle cutter assembly onto the tool as previously discussed.
2. On the tile, mark the center point of the circle, and measure or mark the circumference of the intended circle cut.
3. Squeeze the Press Handle (#A) downward, lifting the drill point and knife body above the level of the cutter base.
4. Place the tile on the EVA cushion, with the centerpoint of the circle directly under the center drill of the circle cutter. Release the Press Handle slowly, and adjust the tile to carefully align the Triangle Drill (#G) with the enter point of the hole marked on your tile.
5. Loosen the nut on the Knife Body (#F), and slide the knife body until the knife point aligns with the circumference you have marked on the tile. Retighten the nut.
6. Holding the tile firmly onto the EVA Cushion, rotate the Crank (#B) clockwise to drill into the tile, and cut the circle. Continue rotating the crank until the circle has been completely cut through the tile.

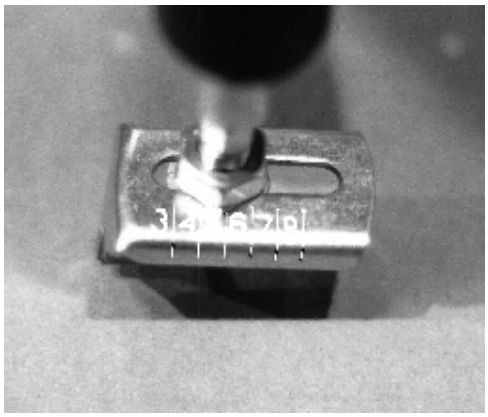

Figure 6. Adjusting the Circle Scale.

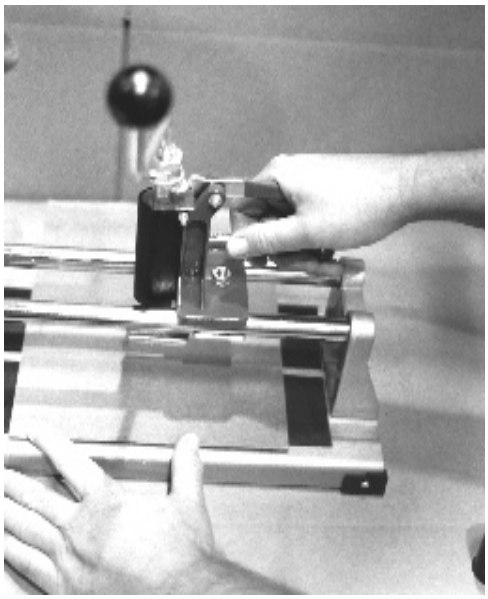

Figure 7. Locating the Tile Before Releasing the Press Handle.

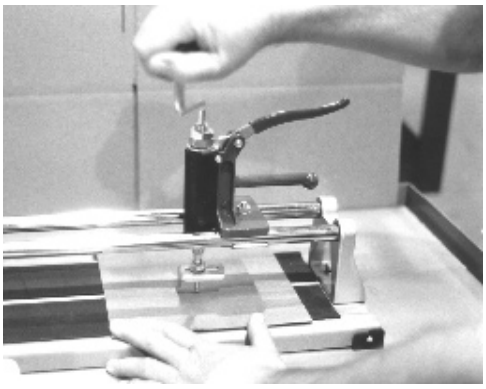

Figure 8. Turning the Crank to Cut a Circle Hole.

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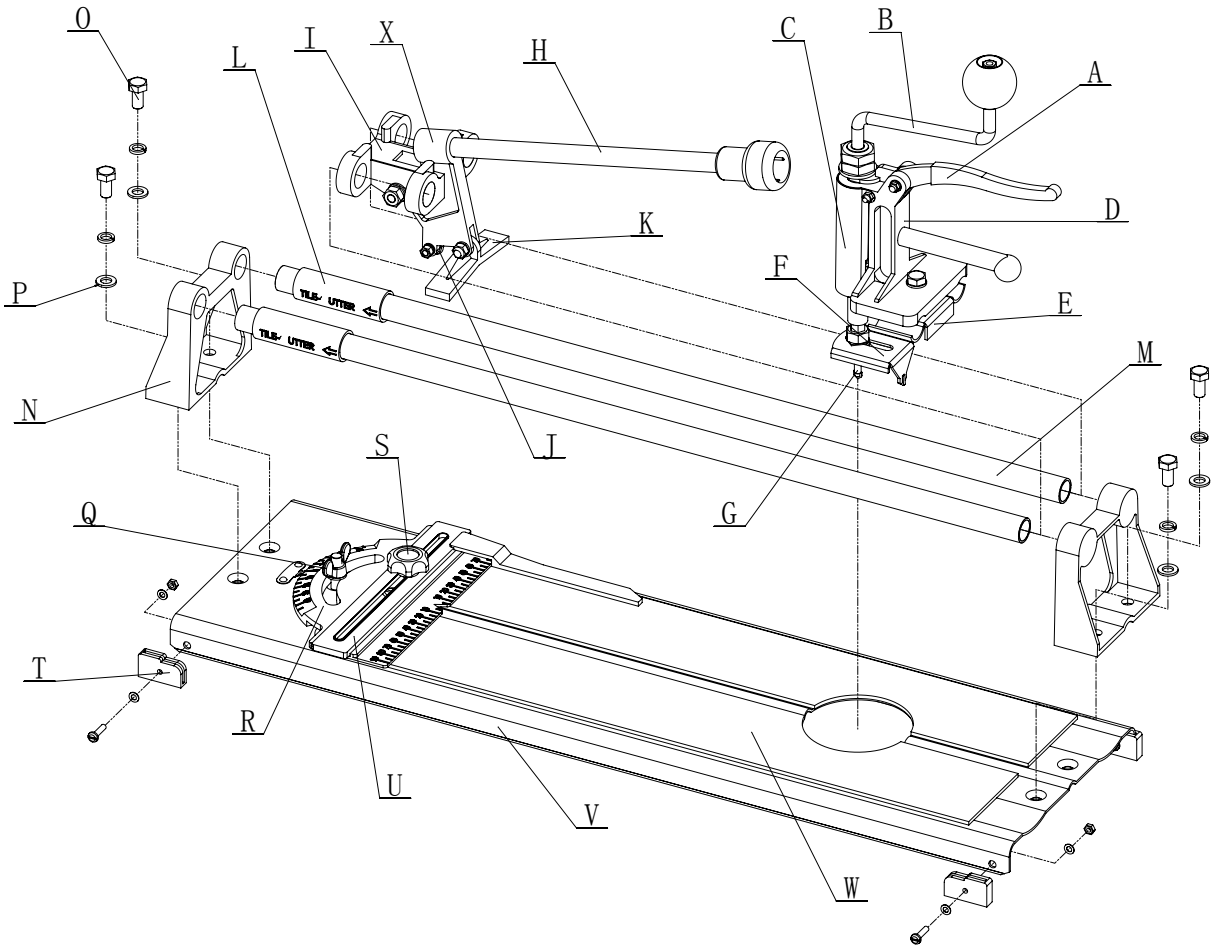
MODEL # 41711 TILE CUTTER



MODEL # 41711 TILE CUTTER PARTS LIST

Part No.	Description	QTY
A	Press Handle	1
B	Crank	1
C	Housing	1
D	Hole Cutter	1
E	Pressing Plate	1
F	Knife Body	1
G	Triangle Drill	1
H	Handle Rod	1
I	Sliding Frame	1
J	Cutting Wheel	1
K	Breaking Part	1
L	Buffer Sleeve	2

Part No.	Description	QTY
M	Tracks	2
N	Track Holders	2
O	Hex Head Bolts	4
P	Washer Sets	4
Q	Wing Nut	1
R	Graduation Ruler	1
S	Clamp	1
T	Bottom Feet w/hardware	4
U	Try Square	1
V	Base	1
W	EVA Cushion	2
X	Cutting Wheel Frame	1